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## INDEX TO AMERICAN BOTANICAL LITERATURE

(1912)

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

This Index is reprinted monthly on cards, and furnished in this form to subscribers at the rate of one cent for each card. Selections of cards are not permitted; each subscriber must take all cards published during the term of his subscription. Correspondence relating to the card issue should be addressed to the Treasurer of the Torrey Botanical Club.

**Ames, O.** Notes on Philippine orchids with descriptions of new species—V: The genus *Bulbophyllum* in the Philippine Islands. Philip. Jour. Sci. 7: (Bot.) 125-143. 2 S 1912.

Seventeen new species described.

**Anderson, P. J., & Anderson, H. W.** The chestnut blight fungus and a related saprophyte. Phytopathology 2: 204-210. O 1912.

Discusses the Connellsville fungus, for which the name *Endothia virginiana* is proposed, and concludes that we have in our territory (1) *Endothia radicalis* (Schw.) Fr., (2) the true blight, *E. parasitica* (Murrill), and (3) *E. virginiana*.

**Andrews, F. M.** Some variations in plants. Proc. Indiana Acad. Sci. 1911: 279-281. 1912.

**Berger, A.** *Opuntia tomentella* A. Berger spec. nov. Monats. Kakteenk. 22: 147, 148. 15 O 1912.

**Banker, H. J.** Type studies in the *Hydnaceae*—II. The genus *Steccherinum*. Mycologia 4: 309-318. 23 N 1912.

*Steccherinum Peckii* and *S. basi-badium* spp. nov. are described.

**Bessey, C. E.** Outlines of plant phyla 1-20. Lincoln. 28 S 1912.  
Third Edition.

**Bioletti, F. T., & Cruess, W. V.** Enological investigations. Calif. Agr. Exp. Sta. Bull. 230: 23-118. f. 1-8. Au 1912.

Includes a list of fungi found in must of grapes.

- Bitter G.** *Solana nova vel minus cognita*—III. Repert. Sp. Nov. **11**: 201-240. 20 O 1912.  
Includes 32 new species in *Solanum*.
- Blumer, J. C.** The Euphorbias of Tucson and vicinity. Muhlenbergia **8**: 97-102. 31 O 1912.
- Bödeker, F.** *Mamillaria Verhaertiana* Bödeker spec. nov. Monats. Kakteenk. **22**: 152-155. 15 O 1912. [Illust.]
- Bovell, J. R.** The use of entomogenous fungi on scale insects in Barbados. West Ind. Bull. **12**: 399-402. 18 S 1912.
- Brooks, C., & DeMeritt, M.** Apple leaf spot. Phytopathology **2**: 181-190. pl. 17. O 1912.  
A disease caused by *Sphaeropsis malorum*.
- Brown, W. H.** The relation of *Rafflesia manillana* to its host. Philip. Jour. Sci. **7**: (Bot.) 209-226. pl. 12-21. S 1912.
- Cannon, W. A.** Structural relations in xenoparasitism. Am. Nat. **46**: 675-681. N 1912. [Illust.]
- Chamberlain, C. J.** A round-the-world botanical excursion. Pop. Sci. Mo. **81**: 417-433. f. 1-10. N 1912.
- Clark, E. D.** The original significance of starch. Orig. Comm. Eighth Internat. Cong. Appl. Chem. **19**: 55-69. 1912.
- Clements, F. E., Rosendahl, C. O., & Butters, F. K.** Minnesota trees and shrubs. Rep. Bot. Surv. Minnesota **9**: ix-xxi + 11-314. 15 Au 1912.
- Clute, W. N.** A problematical fern (*Gymnogramma lanceolata*). Fern Bull. **20**: 43-45. [O] 1912. [Illust.]
- [**Clute, W. N.**] Pteridiographia. Fern Bull. **20**: 56-60. [O] 1912.  
Includes notes on (1) new fern pest, (2) walking fern and lime, (3) apogamy in *Pellaea*, (4) *Lycopodium lucidulum porophilum*, (5) affinities of *Taenitis*, and (6) sporophyll zones.
- Clute, W. N.** Rare forms of fernworts—XXII. Fern Bull. **20**: 49-52. [O] 1912. [Illust.]
- Conklin, G. H.** The *Hepaticae* of the sixth edition of Gray's Manual compared with the exchange list. Bryologist **15**: 88-91. N 1912.
- Coker, W. C.** *Achlya DeBaryana* Humphrey and the *prolifera* group. Mycologia **4**: 319-324. pl. 78. 23 N 1912.
- Coker, W. C.** *Achlya glomerata* sp. nov. Mycologia **4**: 325, 326. pl. 79. 23 N 1912.
- Cook, O. F.** Results of cotton experiments in 1911. U. S. Dept. Agr. Plant Ind. Circ. 96: 3-21. 17 J1 1912.
- Deam, C. C.** Additions to the flora of the lower Wabash valley, by Dr. J. Schneck. Proc. Indiana Acad. Sci. **1911**: 365-369. 1912.

- Deam, C. C.** Plants new or rare in Indiana. Proc. Indiana Acad. Sci. **1911**: 371-374. 1912.
- Detmers, F.** An ecological study of Buckeye Lake. Proc. Ohio Acad. Sci. **5**: 5-138. *pl. 1-12 + f. 1-31*. My 1912.  
The annotated list of plants includes 19 species of fungi.
- Detwiler, S. B.** Some benefits of the chestnut blight. Forest Leaves **13**: 162-165. O 1912.
- Dodge, R.** Further notes on variation in *Botrychium ramosum*. Fern Bull. **20**: 48, 49. [O] 1912.
- East, E. M.** The mendelian notation as a description of physiological facts. Am. Nat. **46**: 633-655. N 1912.
- Emerson, R. A.** The inheritance of certain forms of chlorophyll reduction in corn leaves. Ann. Rep. Nebraska Agr. Exp. Sta. **25**: 89-124. 1 F 1912.
- Fawcett, H. S.** Citrus scab, *Cladosporium Citri* Massee. Monthly Bull. State Comm. Hort. Calif. **1**: 833-842. *f. 253-260*. O 1912.
- Fawcett, H. S.** Gum diseases in citrus trees. Monthly Bull. State Comm. Hort. Calif. **1**: 147-156. *f. 49-53*. Ap 1912.
- Fisher, M. L.** Report of the work in corn pollination—III. Proc. Indiana Acad. Sci. **1911**: 283-284. 1912.
- French, G. T.** Seed tests made at the station during 1910. Ann. Rep. N. Y. Exp. Sta. **30**: 69-80. 1912.
- Gates, F. C.** The relation of snow cover to winter killing in *Chamaedaphne calyculata*. Torreyia **12**: 257-262. *f. 1-3*. 10 N 1912.
- Greene, E. L.** Certain asclepiads. Leaflets **2**: 229-333. 22 O 1912.
- Greene, E. L.** Certain western roses. Leaflets **2**: 254-260. 22 O 1912; 261-266. 6 N 1912.  
Twenty-two new species described.
- Greene, E. L.** Earlier history of our dogbanes—I Leaflets **2**: 241-248. 22 O 1912.
- Greene, E. L.** A handful of vetches. Leaflets **2**: 267-270. 22 O 1912.
- Greene, E. L.** Miscellaneous specific types—VI. Leaflets **2**: 270-272. 1912.  
Includes new species in *Talinum* (2), *Claytonia* (1), *Tridophyllum* (2) and *Sisyrinchium* (1).
- Greene, E. L.** New species of *Cicuta*. Leaflets **2**: 236-241. 22 O 1912.  
Eight new species are described.
- Greene, E. L.** Novitates boreali-americanae—VI. Repert. Sp. Nov. **11**: 108-111. 20 J1 1912.  
Includes descriptions of 7 new species of *Cercis*.

- Greene, E. L.** Some new lupines. Leaflets 2: 233-236. 22 O 1912.  
Six new species described.
- Greene, E. L.** Some Californian maples. Leaflets 2: 248-254. 22 O 1912.
- Greene, E. L.** Three new *Rhamni*. Leaflets 2: 266, 267. 6 N 1912.
- Grimms, E. J.** New and notable members of the Indiana flora. Proc. Indiana Acad. Sci. 1911: 285-289. 1912.
- [Grout, A. J.]** Photographing mosses. Bryologist 15: 97. *pl.* 4. N 1912.  
*Bryum caespiticium*.
- Hall, J. G.** *Monochaetia Desmazierii*. Mycologia 4: 330, 331. N 1912.  
A note on the identity of the fungus causing the large leaf spot of chestnut.
- Halsted, B. D.** Shade-induced uprightness in the seaside spurge. Torrey 12: 262. 10 N 1912.
- Halsted, B. D.** The elongation of the hypocotyl. New Jersey Agr. Exp. Sta. Bull. 245: 3-32. *pl.* 1-12. 25 My 1912.  
A preliminary study.
- Harris, J. A.** A first study of the influence of the starvation of the ascendants upon the characteristics of the descendants—II. Am. Nat. 46: 656-674. N 1912.
- Harshberger, J. W.** A classification of the departments of botany and an arrangement of material based thereon. Science II. 36: 521-525. 18 O 1912.
- Haynes, C. C.** Helpful literature for students of North American *Hepaticae*. Bryologist 15: 91-93. N 1912.
- Heald, F. D., & Lewis, I. M.** A blight of the mesquite. Trans. Am. Micros. Soc. 31: 5-9. *pl.* 1. Ja 1912.
- Heller, A. A.** The North American lupines—VIII. Muhlenbergia 8: 103-107. *f.* 15-17. 31 O 1912.  
Includes *Lupinus apertus* and *L. mollis* spp. nov.
- Hesler, L. R.** The New York apple tree canker. Proc. Indiana Acad. Sci. 1911: 325-339. *f.* 1-7. 1912.
- Davis, B. M.** Was Lamarck's evening primrose (*Oenothera Lamarckiana* Seringe) a form of *Oenothera grandiflora* Solander? Bull. Torrey Club 39: 519-533. *pl.* 37-39. 18 N 1912.
- Hill, E. J.** The fern flora of Illinois. Fern Bull. 20: 33-43. [O] 1912.
- Hollick, A.** Additions to the paleobotany of the Cretaceous formation on Long Island. No. III. Bull. N. Y. Bot. Gard. 8: 154-170. *pl.* 162-170. 23 N 1912.  
Includes *Embothriopsis presagita* gen. et sp. nov., *Laurophyllum ocoteaeoides*, *Cassia insularis*, *Myrtophyllum sapindoides*, and *Ligustrum subtile* spp. nov.

- Hopkins, C. G.** Plant food in relation to soil fertility. *Science* II. 36: 616-622. 8 N 1912.
- Horne, W. T.** Fungous root rot. *Monthly Bull. State Comm. Hort. Calif.* 1: 216-225. f. 83-91. My 1912.  
*Armillaria mellea* the cause of root rot.
- Hotson, J. W.** Culture studies of fungi producing bulbils and similar propagative bodies. *Proc. Am. Acad. Arts & Sci.* 48: 227-306. pl. 1-12. O 1912.  
Includes new species in *Cubomia* (1), *Papulospora* (9) and *Melampsora* (3).
- Jeffrey, E. C.** The history, comparative anatomy, and evolution of the Araucarioxylon type. *Proc. Am. Acad. Arts & Sci.* 48: 531-571. pl. 1-8. N 1912.
- Johnson, A. G.** The unattached aecial forms of plant-rusts in North America. *Proc. Indiana Acad. Sci.* 1911: 375-411. 1912.
- Johnson, E. C.** The smuts of wheat, oats, barley, and corn. U. S. Dept. Agr. Farm. Bull. 507: 3-32. f. 1-11. 8 O 1912.
- Kingman, C. C.** A list of mosses collected in southern California. *Bryologist* 15: 93-95. N 1912.
- Lantis, V.** Development of the microsporangia and microspores of *Abutilon Theophrasti*. *Bot. Gaz.* 54: 330-335. f. 1-12. 15 O 1912.
- Lewis, I. M.** A bacterial canker of plum twigs. *Trans. Am. Micros. Soc.* 31: 145-149. pl. 14. Jl 1912.  
A disease caused by *Pseudomonas Pruni*.
- Lindau, G.** Einige neue Acanthaceen. *Repert. Sp. Nov.* 11: 122-124. 20 Jl 1912.  
Includes *Geissomeria lolioides*, *Streblacanthus cordatus*, and *Chaetochlamys panamensis* spp. nov. from Panama.
- Lyon, H. L.** Iliau, an endemic cane disease. *Rep. Exp. Sta. Hawaiian Sugar Planters' Assoc. Bull.* 11: 5-28. pl. 1 + f. 1-10. S 1912.  
Includes *Melanconium Iliau* the imperfect stage of *Gnomonia Iliau* sp. nov. and notes on *M. Sacchari*.
- McLachlan, A.** The branching habits of Egyptian cotton. U. S. Dept. Agr. Plant Ind. Bull. 249: 5-28. pl. 1-3 + f. 1. 20 S 1912.
- Mattei, G. E.** Osservazioni biologiche sopra alcune *Cactaceae*. *Malpighia* 24: 341-345. 1912.
- Melhus, I. E.** Culturing of parasitic fungi on the living host. *Phytopathology* 2: 197-203. pl. 20 + f. 1, 2. O 1912.
- Merrill, E. D.** Nomenclatural and systematic notes on the flora of Manila. *Jour. Philip. Sci.* 7: (Bot.) 227-251. S 1912.  
Includes *Fimbristylis corniculata*, *Tabernaemontana subglobosa*, *Blumea tenera*, *Limnophila manilensis*, and *Staurogyne rivularis* spp. nov.
- Merrill, E. D.** Notes on the flora of Manila with special reference to

- the introduced element. Philip. Jour. Sci. **7**: (Bot.) 145-208. 2 S 1912.
- Miller, F. A.** The improvement of medicinal plants. Proc. Indiana Acad. Sci. **1911**: 309-320. 1912. [Illust.]
- Moore, G. T.** Microorganisms of the soil. Science II. **36**: 609-616. N 1912.
- Murrill, W. A.** The *Agaricaceae* of the Pacific Coast—III. Mycologia **4**: 294-308. pl. 77. 23 N 1912.  
New species are described in *Agaricus* (9), *Stropharia* (2), *Drosophila* (5), and *Gomphidius* (1).
- Murrill, W. A.** Illustrations of fungi—XII. Mycologia **4**: 289-293. pl. 74. 23 N 1912.  
The following species of *Russula* are described and illustrated: *R. sericeonitens* Kauffman, *R. Mariae* Peck, *R. emetica* Fries, *R. sulcatipes* Murrill sp. nov., *R. obscura* Romell, *R. uncialis* Peck, *R. foetens*, Pers., and *R. rubriochracea* Murrill sp. nov.
- Murrill, W. A.** New combinations for tropical agarics. Mycologia **4**: 331, 332. 23 N 1912.
- Murrill, W. A.** The *Polyporaceae* of Mexico. Bull. N. Y. Bot. Gard. **8**: 137-153. 23 N 1912.  
Includes new species in *Corioloopsis* (4), *Coriolus* (6), *Favolus* (1), *Grifola* (1), *Hexagona* (3), *Trametes* (2), *Tyromyces* (1), *Ganoderma* (2), *Daedalea* (1), *Pyropolyporus* (1), *Gleophyllum* (1), and *Lenzites* (1).
- Murrill, W. A.** Species of *Hydnaceae* appear to be scarce on the Pacific coast, as elsewhere. Mycologia **4**: 330. 23 N 1912.  
Short notes on five species collected by the author.
- Orton, C. R.** The prevalence and prevention of stinking smut in Indiana. Proc. Indiana Acad. Sci. **1911**: 343-346. 1912.
- Osner, G. A.** Diseases of ginseng caused by sclerotinias. Proc. Indiana Acad. Sci. **1911**: 355-364. f. 1-6. 1912.
- Osterhout, W. J. V.** Some chemical relations of plant and soil. Science II. **36**: 571-576. 1 N 1912.
- Owens, C. E.** A monograph of the common Indiana species of *Hypoxylon*. Proc. Indiana Acad. Sci. **1911**: 291-308. f. 1-16. 1912.
- Pace, L.** *Parnassia* and some allied genera. Bot. Gaz. **54**: 306-329. pl. 14-17. 15 O 1912.
- Petry, E. J.** Nutrients in green shoots of trees. Proc. Indiana Acad. Sci. **1911**: 321-324. 1912.
- Piper, C. V., & McKee, R.** Vetches. U. S. Dept. Agr. Farm. Bull. **515**: 5-28. f. 1-10. 11 N 1912.
- Prescott, A.** The tall spleenworts. Fern Bull. **20**: 46, 47. [O] 1912.
- Prince, S. F.** Notes on various ferns. Fern Bull. **20**: 52, 53. [O] 1912.
- Pulle, A.** Neue Beiträge zur Flora Surinams—III. Rec. Trav. Bot. Néerlandais **9**: 125-168. pl. 2, 3. 1912.

- Quehl, L.** Bemerkungen über einige Arten von Mamillarien aus der Untergattung *Coryphantha* Engelm., Reihe *Aulacothele* Lem. Monats. Kakteenk. **22**: 115-118. 15 Au 1912.
- Quehl, L.** *Mamillaria macrothele* Mart. Monats. Kakteenk. **22**: 145-147. 15 O 1912.
- Roberts, E. W.** The modern theory of the cell as a complex of organized units. Trans. Am. Micros. Soc. **31**: 85-113. pl. 6-13 + f. A-K. Ap 1912.
- Robinson, C. B.** *Polycodium*. Bull. Torrey Club **39**: 549-559. 18 N 1912.
- Rolfe, R. A.** *Eriopsis Helenae*. Curt. Bot. Mag. IV. **8**: pl. 8462. N 1912.  
A plant from Peru.
- Rosenbaum, J.** Infection experiments with *Thielavia basicola* on ginseng. Phytopathology **2**: 191-196. pl. 18, 19. O 1912.
- Rusby, H. H.** New species from Bolivia, collected by R. S. Williams—2. Bull. N. Y. Bot. Gard. **8**: 89-135. 23 N 1912.  
One hundred and fifteen new species are described.
- Schreiner, O.** Organic constituents of soils. Science II. **36**: 577-587. 1 N 1912.
- Schreiner, O., & Skinner, J. J.** The effect of guanidin on plants. Bull. Torrey Club **39**: 535-548. f. 1-6. 18 N 1912.
- Seaver, F. J.** Ancient and modern views regarding the relation of taxonomy to other phases of botanical work. Torreya **12**: 262-264. 10 N 1912.
- Shear, C. L.** The chestnut blight fungus. Phytopathology **2**: 211, 212. O 1912.
- Sheldon, J. L.** Additions to the recorded mosses of West Virginia. Bryologist **15**: 95-97. N 1912.
- Smith, E. F.** Isolation of pathogenic potato bacteria: A question of priority. Phytopathology **2**: 213, 214. O 1912.
- South, F. W.** Further notes on the fungus parasites of scale insects. West Ind. Bull. **12**: 403-412. 18 S 1912.
- Starr, A. M.** Comparative anatomy of dune plants. Bot. Gaz. **54**: 265-305. f. 1-35. 15 O 1912.
- Stevens, N. E.** A palm from the Upper Cretaceous of New Jersey. Am. Jour. Sci. IV. **34**: 421-436. f. 1-24. N 1912.  
*Palmoxylon anchorus* sp. nov.
- Stapf, O.** *Iris caroliniana*. Curt. Bot. Mag. IV. **8**: pl. 8465. N 1912.
- Sydow, H. & P.** Novae fungorum species—VIII. Ann. Myc. **10**: 405-410. 10 Au 1912.  
Includes *Cronartium egenulum* from Brazil.



- Sydow, H.** Fungi exotici exsiccati. Ann. Myc. **10**: 351, 352. 10 Au 1912.  
Includes several American species.
- Taubenhaus, J. J.** Root gall diseases of roses, their cause and methods of control. Gard. Chron. Am. **15**: 187, 188. f. 1-3. O 1912.
- Taubenhaus, J. J.** A further study of some Gleosporiums and their relation to a sweet pea disease. Phytopathology **2**: 153-160. pl. 16 + f. 1. Au 1912.
- Tylor, N.** Recent additions to the local flora garden. Brooklyn Bot. Gard. Record **1**: 103, 104. O 1912.
- Thompson, W. P.** Artificial production of aleurone grains. Bot. Gaz. **54**: 336-338. f. 1. 15 O 1912.
- Van Hook, J. M.** Indiana fungi—II. Proc. Indiana Acad. Sci. **1911**: 347-354. f. 1, 2. 1912.
- Vries, H. de, & Bartlett, H. H.** The evening primrose of Dixie Landing, Alabama. Science II. **36**: 599-601. 1 N 1912.
- Weingart, W.** *Cereus vagans* Kath. Brand. Monats. Kakteenk. **22**: 135, 136. 15 S 1912.
- Weingart, W.** *Pilocereus Houlettii* Lem. Monats. Kakteenk. **22**: 132-135. 15 S 1912. [Illust.]
- Weingart, W.** Der Reif an *Cereus trigonus* Haw. var. *Guatemalensis* Eichlam und var. *costaricensis* Web. Monats. Kakteenk. **22**: 129-131. 15 S 1912.
- Weir, J. R.** A *Botrytis* on conifers in the northwest. Phytopathology **2**: 215. O 1912.
- Wherry, E. T.** Silicified wood from the Triassic of Pennsylvania. Proc. Acad. Nat. Sci. Philadelphia **64**: 366-372. pl. 3, 4. O 1912.  
Includes *Brachyoxylon pennsylvanica* sp. nov.
- Whetzel, H. H.** Baldwin spot or stippin. Proc. N. Y. State Fruit Growers' Assoc. **11**: 28-34. 1912.
- Whetzel, H. H.** The fungous diseases of the peach. Proc. N. Y. State Fruit Growers' Assoc. **11**: 211-219. 1912.
- Wright, C. H.** *Chamaedorea glaucifolia*. Curt. Bot. Mag. IV. **8**: pl. 8457. O 1912.  
A plant from South America?
- Wright, C. H.** *Furcraea elegans*. Curt. Bot. Mag. IV. **8**: pl. 8461. O 1912.  
A native of Mexico.